Bansilal Ramnath Agarwal Charitable Trust’s

VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY, PUNE

DEPARTMENT OF COMPUTER ENGINEERING

**PROJECT SYNOPSIS**

1. **Group ID:** SY BTech: A\_13
2. **Group Members :**

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1. **Project Title :**

Student Database Management system

1. **Internal Guide :**

Mrs Snehal Rathi

Mrs Disha Wankhede

1. **Sponsorship and External Guide**
2. **Technical Keywords (As per ACM Keywords)**
3. File Handling
4. Binary trees
5. Threaded binary trees
6. **Problem Statement :**

Creating a simple database of students

1. **Abstract :**

Databases are being used in every aspect of our lives right now. Trillions of bytes of data are being stored in servers around the world. SQL is one of the most basic methods to use such a database.

But here we will implement a simple student database management system developed in C++. It utilizes binary search tress and shows effective implementation of classes along with an Effeicent data structure to search records in the database l This project will teach us how to add, list, modify and search records using binary trees in C++ language.

The data stored will be   
1) Roll No  
2) Name  
3) Father’s Name   
4) DOB  
5) Student Cell number

1. **Goals and objectives**

* All data easily accessible and can be edited
* Efficient storage of data using binary trees where data can be searched and retrieved faster
* To learn the implementation and principles of Binary search tree and it's advantages